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Aidan Smith / Roderick Asekhauno  
Mason Herman / Rebecca Hutchinson  
Economic Indicators Division  
(301) 763-2960

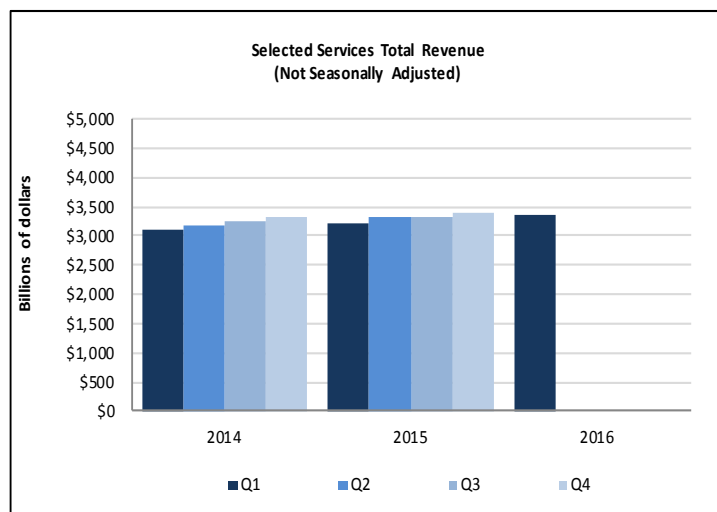
CB 16-106

## QUARTERLY ESTIMATES FOR SELECTED SERVICE INDUSTRIES 1st QUARTER 2016

**Special Notice:** Effective with the March 2017 release, quarterly services estimates will be revised based on the results of the 2015 Service Annual Survey and Annual Retail Trade Survey.

**Investigating Economic Indicator Webinar Series:** To learn more about this release and the other indicators the U.S. Census Bureau publishes, join us for the Investigating Economic Indicators Webinar Series. For more information, visit [www.census.gov/econ/webinar](http://www.census.gov/econ/webinar).

**Selected Services Total** The U.S. Census Bureau announced today that the estimate of U.S. selected services total revenue for the first calendar quarter of 2016, not adjusted for seasonal variation, or price changes, was \$3,345.5 billion, a decrease of 1.2 percent ( $\pm 0.4\%$ ) from the fourth quarter of 2015 and up 3.6 percent ( $\pm 0.6\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 1.5 percent ( $\pm 0.2\%$ ) to 1.6 percent ( $\pm 0.2\%$ ).



**Information** The estimate of U.S. information sector revenue for the first quarter of 2016, adjusted for seasonal variation but not for price changes, was \$363.9 billion, an increase of 1.3 percent ( $\pm 0.4\%$ ) from the fourth quarter of 2015 and up 5.7 percent ( $\pm 0.6\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 1.8 percent ( $\pm 0.4\%$ ) to 1.9 percent ( $\pm 0.4\%$ ).

**Professional, scientific, and technical services** The estimate of U.S. professional, scientific, and technical services revenue for the first quarter of 2016, adjusted for seasonal variation but not for price changes, was \$428.3 billion, an increase of 3.1 percent ( $\pm 0.9\%$ ) from the fourth quarter of 2015 and up 5.9 percent ( $\pm 1.3\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 0.2 percent ( $\pm 1.5\%$ )\* to 0.1 percent ( $\pm 1.5\%$ )\*.

**Administrative and support and waste management and remediation services** The estimate of U.S. administrative and support and waste management and remediation services revenue for the first quarter of 2016, adjusted for seasonal variation but not for price changes, was \$208.2 billion, an increase of 1.3 percent ( $\pm 1.7\%$ )\* from the fourth quarter of 2015 and up 4.6 percent ( $\pm 4.2\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -0.2 percent ( $\pm 2.1\%$ )\* to 0.0 percent ( $\pm 2.1\%$ )\*.

\* The 90 percent confidence interval includes zero. The Census Bureau does not have sufficient statistical evidence to conclude that the actual change is different from zero.

## QUARTERLY ESTIMATES FOR SELECTED SERVICE INDUSTRIES

### 1st QUARTER 2016– Con.

**Utilities** The estimate of U.S. utilities revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$140.6 billion, an increase of 7.7 percent ( $\pm 0.9\%$ ) from the fourth quarter of 2015 and down 11.1 percent ( $\pm 2.5\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -11.5 percent ( $\pm 1.9\%$ ) to -11.9 percent ( $\pm 1.9\%$ ).

**Transportation and warehousing** The estimate of U.S. transportation and warehousing revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$205.2 billion, a decrease of 4.8 percent ( $\pm 0.8\%$ ) from the fourth quarter of 2015 and down 0.1 percent ( $\pm 1.5\%$ )\* from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -3.9 percent ( $\pm 0.9\%$ ) to -4.0 percent ( $\pm 0.9\%$ ).

**Finance and insurance** The estimate of U.S. finance and insurance revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$1,024.4 billion, an increase of 0.4 percent ( $\pm 1.5\%$ )\* from the fourth quarter of 2015 and up 3.1 percent ( $\pm 1.3\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 1.4 percent ( $\pm 0.6\%$ ) to 1.5 percent ( $\pm 0.6\%$ ).

**Real estate and rental and leasing** The estimate of U.S. real estate and rental and leasing revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$152.5 billion, a decrease of 4.0 percent ( $\pm 0.8\%$ ) from the fourth quarter of 2015 and up 9.9 percent ( $\pm 2.1\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -0.4 percent ( $\pm 1.3\%$ )\* to -0.2 percent ( $\pm 1.3\%$ )\*.

**Educational services** The estimate of U.S. educational services revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$15.5 billion, an increase of 1.5 percent ( $\pm 2.8\%$ )\* from the fourth quarter of 2015 and up 5.1 percent ( $\pm 3.8\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 0.4 percent ( $\pm 5.1\%$ )\* to 0.5 percent ( $\pm 5.1\%$ )\*.

**Health care and social assistance** The estimate of U.S. health care and social assistance revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$597.3 billion, an increase of 0.7 percent ( $\pm 1.5\%$ )\* from the fourth quarter of 2015 and up 5.2 percent ( $\pm 1.3\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 2.4 percent ( $\pm 0.8\%$ ) to 2.7 percent ( $\pm 0.8\%$ ).

**Arts, entertainment, and recreation** The estimate of U.S. arts, entertainment, and recreation revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$56.0 billion, a decrease of 9.6 percent ( $\pm 2.3\%$ ) from the fourth quarter of 2015 and up 4.9 percent ( $\pm 2.8\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -0.8 percent ( $\pm 4.5\%$ )\* to -0.7 percent ( $\pm 4.5\%$ )\*.

**Accommodation** The estimate of U.S. accommodation revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$53.7 billion, a decrease of 1.5 percent ( $\pm 1.7\%$ )\* from the fourth quarter of 2015 and up 1.0 percent ( $\pm 1.5\%$ )\* from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from -10.4 percent ( $\pm 1.3\%$ ) to -10.0 percent ( $\pm 1.5\%$ ).

**Other services (except public administration)** The estimate of U.S. other services (except public administration) revenue for the first quarter of 2016, not adjusted for seasonal variation, or price changes, was \$120.4 billion, a decrease of 7.6 percent ( $\pm 3.0\%$ ) from the fourth quarter of 2015 and up 2.9 percent ( $\pm 2.1\%$ ) from the first quarter of 2015. The third quarter of 2015 to fourth quarter of 2015 percent change was revised from 11.2 percent ( $\pm 3.8\%$ ) to 11.3 percent ( $\pm 3.8\%$ ).

Additional industry detail and estimates of source of revenue, expenses, inpatient days, and discharges can be found at: [www.census.gov/services/](http://www.census.gov/services/)

For survey description, description of seasonal adjustment and an explanation of the reliability of the estimates included in this report, please see the last page of the publication.

**Second quarter 2016 estimates are scheduled to be released on September 8, 2016, at 10:00 A.M. EDT.**

\* The 90 percent confidence interval includes zero. The Census Bureau does not have sufficient statistical evidence to conclude that the actual change is different from zero.

**Table 1a. Selected Services - Estimated Quarterly Revenue for Employer Firms, Seasonally Adjusted<sup>1</sup>**

[Estimates are adjusted for seasonal variation but not for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>2</sup>	Kind of business	Total revenue (millions of dollars)						Percent change					
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015 (r)	2Q 2015 (r)	1Q 2015 (r)	4Q 2014 (r)	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	3Q 2015 from 2Q 2015 (r)	2Q 2015 from 1Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)
<b>51</b>	<b>Information .....</b>	<b>363,949</b>	<b>359,218</b>	<b>352,527</b>	<b>349,732</b>	<b>344,481</b>	<b>343,108</b>	<b>1.3</b>	<b>1.9</b>	<b>0.8</b>	<b>1.5</b>	<b>5.7</b>	<b>4.7</b>
5112	Software publishers.....	51,258	50,160	49,593	49,688	49,980	49,245	2.2	1.1	-0.2	-0.6	2.6	1.9
512	Motion picture and sound recording industries .....	29,045	25,841	25,638	25,351	24,859	23,100	12.4	0.8	1.1	2.0	16.8	11.9
<b>54</b>	<b>Professional, scientific, and technical services<sup>3</sup> .....</b>	<b>428,268</b>	<b>415,498</b>	<b>415,149</b>	<b>409,196</b>	<b>404,571</b>	<b>404,236</b>	<b>3.1</b>	<b>0.1</b>	<b>1.5</b>	<b>1.1</b>	<b>5.9</b>	<b>2.8</b>
5411	Legal services <sup>3</sup> .....	72,757	69,858	71,327	69,910	67,129	68,003	4.2	-2.1	2.0	4.1	8.4	2.7
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	41,956	40,592	40,366	38,033	37,053	37,179	3.4	0.6	6.1	2.6	13.2	9.2
<b>56</b>	<b>Administrative and support and waste management and remediation services<sup>4</sup> .....</b>	<b>208,220</b>	<b>205,452</b>	<b>205,519</b>	<b>202,595</b>	<b>198,993</b>	<b>198,189</b>	<b>1.3</b>	<b>Z</b>	<b>1.4</b>	<b>1.8</b>	<b>4.6</b>	<b>3.7</b>
5613	Employment services .....	83,210	81,386	81,231	79,048	77,549	75,989	2.2	0.2	2.8	1.9	7.3	7.1
5615	Travel arrangement and reservation services .....	10,051	9,767	9,918	9,868	9,697	10,154	2.9	-1.5	0.5	1.8	3.7	-3.8
561 pt	Other administrative and support services <sup>5</sup> .....	94,182	93,558	93,899	93,410	91,698	90,298	0.7	-0.4	0.5	1.9	2.7	3.6
562	Waste management and remediation services .....	20,777	20,741	20,471	20,269	20,049	21,748	0.2	1.3	1.0	1.1	3.6	-4.6
<b>622</b>	<b>Hospitals.....</b>	<b>260,623</b>	<b>255,789</b>	<b>253,953</b>	<b>253,555</b>	<b>250,089</b>	<b>247,336</b>	<b>1.9</b>	<b>0.7</b>	<b>0.2</b>	<b>1.4</b>	<b>4.2</b>	<b>3.4</b>

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.

(1) The seasonal factors are based on a short time series that may not have stable seasonal patterns. As more estimates are added to the time series, large revisions in seasonal factors and consequently historical estimates may be observed. Data users should exercise caution when drawing inferences based on the seasonally adjusted estimates. Unless otherwise specified, seasonally adjusted estimates are obtained using a direct seasonal adjustment at the published NAICS (North American Industry Classification System) level.

(2) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2007 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(3) Excludes NAICS 54112 (offices of notaries).

(4) Seasonally adjusted estimates for NAICS 56 are obtained by summing the seasonally adjusted estimates for 5613, 5615, 561pt, and 562.

(5) Includes NAICS 5611 (office administrative services), 5612 (facilities support services), 5614 (business support services), 5616 (investigation and security services), 5617 (services to buildings and dwellings), and 5619 (other support services).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

 [Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
	<b>Selected Services Total<sup>2</sup></b> .....	<b>3,345,528</b>	<b>3,386,911</b>	<b>3,335,076</b>	<b>3,315,616</b>	<b>3,229,503</b>	<b>3,314,298</b>	<b>-1.2</b>	<b>1.6</b>	<b>3.6</b>	<b>2.2</b>	<b>3,345,528</b>	<b>3,229,503</b>	<b>3.6</b>
<b>22</b>	<b>Utilities<sup>3</sup></b> .....	<b>140,592</b>	<b>130,558</b>	<b>148,193</b>	<b>129,848</b>	<b>158,059</b>	<b>145,368</b>	<b>7.7</b>	<b>-11.9</b>	<b>-11.1</b>	<b>-10.2</b>	<b>140,592</b>	<b>158,059</b>	<b>-11.1</b>
2211	Electric power generation, transmission and distribution .....	107,300	104,533	128,805	108,238	116,012	111,045	2.6	-18.8	-7.5	-5.9	107,300	116,012	-7.5
2212	Natural gas distribution .....	30,168	22,621	15,533	18,267	38,923	30,925	33.4	45.6	-22.5	-26.9	30,168	38,923	-22.5
2213	Water, sewage and other systems .....	3,124	3,404	3,855	3,343	3,124	3,398	-8.2	-11.7	Z	0.2	3,124	3,124	Z
<b>48-49</b>	<b>Transportation and warehousing<sup>4</sup></b> .....	<b>205,153</b>	<b>215,386</b>	<b>224,338</b>	<b>219,365</b>	<b>205,334</b>	<b>219,447</b>	<b>-4.8</b>	<b>-4.0</b>	<b>-0.1</b>	<b>-1.9</b>	<b>205,153</b>	<b>205,334</b>	<b>-0.1</b>
481	Air transportation .....	45,803	48,019	53,157	51,846	46,506	48,653	-4.6	-9.7	-1.5	-1.3	45,803	46,506	-1.5
483	Water transportation .....	9,978	10,757	12,329	10,859	10,321	11,057	-7.2	-12.8	-3.3	-2.7	9,978	10,321	-3.3
4831	Deep sea, coastal, and Great Lakes water transportation.....	8,077	8,496	10,084	8,662	8,217	8,402	-4.9	-15.7	-1.7	1.1	8,077	8,217	-1.7
4832	Inland water transportation.....	1,901	2,261	2,245	2,197	2,104	2,655	-15.9	0.7	-9.6	-14.8	1,901	2,104	-9.6
484	Truck transportation .....	61,486	65,157	68,129	65,348	60,949	68,809	-5.6	-4.4	0.9	-5.3	61,486	60,949	0.9
4841	General freight trucking .....	40,530	43,179	44,264	42,556	39,376	44,126	-6.1	-2.5	2.9	-2.1	40,530	39,376	2.9
48412	General freight trucking, long-distance .....	34,606	36,730	37,658	36,083	33,481	37,503	-5.8	-2.5	3.4	-2.1	34,606	33,481	3.4
4842	Specialized freight trucking .....	20,956	21,978	23,865	22,792	21,573	24,683	-4.7	-7.9	-2.9	-11.0	20,956	21,573	-2.9
485	Transit and ground passenger transportation .....	8,574	8,731	7,680	9,349	8,667	8,684	-1.8	13.7	-1.1	0.5	8,574	8,667	-1.1
486	Pipeline transportation .....	9,805	9,861	9,847	9,433	9,975	10,659	-0.6	0.1	-1.7	-7.5	9,805	9,975	-1.7
487	Scenic and sightseeing transportation .....	616	740	1,421	1,128	532	675	-16.8	-47.9	15.8	9.6	616	532	15.8
488	Support activities for transportation .....	41,705	43,815	45,439	44,872	41,771	42,653	-4.8	-3.6	-0.2	2.7	41,705	41,771	-0.2
492	Couriers and messengers .....	19,063	20,195	18,454	18,667	18,655	20,348	-5.6	9.4	2.2	-0.8	19,063	18,655	2.2
493	Warehousing and storage .....	8,123	8,111	7,882	7,863	7,958	7,909	0.1	2.9	2.1	2.6	8,123	7,958	2.1
<b>51</b>	<b>Information</b> .....	<b>357,762</b>	<b>375,742</b>	<b>345,124</b>	<b>347,284</b>	<b>338,280</b>	<b>358,548</b>	<b>-4.8</b>	<b>8.9</b>	<b>5.8</b>	<b>4.8</b>	<b>357,762</b>	<b>338,280</b>	<b>5.8</b>
511	Publishing industries (except Internet) .....	71,299	79,713	71,312	74,165	70,647	79,348	-10.6	11.8	0.9	0.5	71,299	70,647	0.9
51111	Newspaper publishers .....	6,223	7,320	6,555	6,722	6,509	7,582	-15.0	11.7	-4.4	-3.5	6,223	6,509	-4.4
51112	Periodical publishers .....	6,357	7,212	7,087	7,363	6,664	7,615	-11.9	1.8	-4.6	-5.3	6,357	6,664	-4.6
5111 pt	Book, directory and mailing list, and other publishers <sup>5</sup> .....	8,742	10,406	11,201	10,491	8,843	10,277	-16.0	-7.1	-1.1	1.3	8,742	8,843	-1.1
5112	Software publishers .....	49,977	54,775	46,469	49,589	48,631	53,874	-8.8	17.9	2.8	1.7	49,977	48,631	2.8
512	Motion picture and sound recording industries .....	28,174	28,425	24,279	24,895	24,088	25,456	-0.9	17.1	17.0	11.7	28,174	24,088	17.0
515	Broadcasting (except Internet) .....	37,309	40,150	35,707	36,168	35,347	37,460	-7.1	12.4	5.6	7.2	37,309	35,347	5.6
5151	Radio and television broadcasting .....	17,546	19,756	16,603	16,767	16,819	19,026	-11.2	19.0	4.3	3.8	17,546	16,819	4.3
5152	Cable and other subscription programming .....	19,763	20,394	19,104	19,401	18,528	18,434	-3.1	6.8	6.7	10.6	19,763	18,528	6.7
517	Telecommunications .....	151,508	154,747	149,480	149,971	147,624	153,100	-2.1	3.5	2.6	1.1	151,508	147,624	2.6
5171	Wired telecommunications carriers .....	77,790	77,896	74,797	75,646	74,578	75,301	-0.1	4.1	4.3	3.4	77,790	74,578	4.3
5172	Wireless telecommunications carriers (except satellite) .....	63,467	66,280	64,321	64,016	63,183	67,433	-4.2	3.0	0.4	-1.7	63,467	63,183	0.4
517 pt	Other telecommunications <sup>6</sup> .....	10,251	10,571	10,362	10,309	9,863	10,366	-3.0	2.0	3.9	2.0	10,251	9,863	3.9
518	Data processing, hosting, and related services .....	32,962	34,127	31,581	30,846	30,128	31,305	-3.4	8.1	9.4	9.0	32,962	30,128	9.4
519	Other information services.....	36,510	38,580	32,765	31,239	30,446	31,879	-5.4	17.7	19.9	21.0	36,510	30,446	19.9
<b>52</b>	<b>Finance and insurance<sup>7</sup></b> .....	<b>1,024,370</b>	<b>1,020,191</b>	<b>1,005,231</b>	<b>1,012,766</b>	<b>993,240</b>	<b>1,001,048</b>	<b>0.4</b>	<b>1.5</b>	<b>3.1</b>	<b>1.9</b>	<b>1,024,370</b>	<b>993,240</b>	<b>3.1</b>
52 pt	Finance and insurance (except monetary authorities-central bank) .....	994,710	991,945	975,470	983,134	967,812	973,244	0.3	1.7	2.8	1.9	994,710	967,812	2.8
521	Monetary authorities-central bank.....	29,660	28,246	29,761	29,632	25,428	27,804	5.0	-5.1	16.6	1.6	29,660	25,428	16.6
522	Credit intermediation and related activities.....	279,767	281,227	278,398	279,377	269,796	272,281	-0.5	1.0	3.7	3.3	279,767	269,796	3.7
5221	Depository credit intermediation.....	124,461	125,220	123,297	123,632	119,205	120,827	-0.6	1.6	4.4	3.6	124,461	119,205	4.4
5222	Nondepository credit intermediation.....	132,534	132,139	131,006	131,343	127,772	128,642	0.3	0.9	3.7	2.7	132,534	127,772	3.7
5223	Activities related to credit intermediation.....	22,772	23,868	24,095	24,402	22,819	22,812	-4.6	-0.9	-0.2	4.6	22,772	22,819	-0.2
523	Securities, commodity contracts, and other financial investments and related activities .....	132,808	137,056	137,425	146,382	144,344	147,667	-3.1	-0.3	-8.0	-7.2	132,808	144,344	-8.0
5231	Securities and commodity contracts intermediation and brokerage .....	57,250	58,110	60,976	65,435	62,915	62,941	-1.5	-4.7	-9.0	-7.7	57,250	62,915	-9.0
5232	Securities and commodity exchanges .....	2,831	2,570	2,665	2,450	2,575	2,748	10.2	-3.6	9.9	-6.5	2,831	2,575	9.9
5239	Other financial investment activities .....	72,727	76,376	73,784	78,497	78,854	81,978	-4.8	3.5	-7.8	-6.8	72,727	78,854	-7.8
524	Insurance carriers and related activities .....	582,135	573,662	559,647	557,375	553,672	553,296	1.5	2.5	5.1	3.7	582,135	553,672	5.1
5241	Insurance carriers .....	500,174	492,921	480,648	478,653	476,257	476,329	1.5	2.6	5.0	3.5	500,174	476,257	5.0
5242	Agencies, brokerages, and other insurance related activities .....	81,961	80,741	78,999	78,722	77,415	76,967	1.5	2.2	5.9	4.9	81,961	77,415	5.9

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

 [Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
<b>53</b>	<b>Real estate and rental and leasing .....</b>	<b>152,539</b>	<b>158,912</b>	<b>159,300</b>	<b>154,770</b>	<b>138,784</b>	<b>147,372</b>	<b>-4.0</b>	<b>-0.2</b>	<b>9.9</b>	<b>7.8</b>	<b>152,539</b>	<b>138,784</b>	<b>9.9</b>
531	Real estate .....	106,579	109,193	109,992	106,680	93,913	98,728	-2.4	-0.7	13.5	10.6	106,579	93,913	13.5
5311	Lessors of real estate.....	63,931	63,867	62,009	61,444	56,018	57,194	0.1	3.0	14.1	11.7	63,931	56,018	14.1
5312	Offices of real estate agents and brokers.....	22,241	24,465	27,308	25,671	18,798	22,156	-9.1	-10.4	18.3	10.4	22,241	18,798	18.3
5313	Activities related to real estate.....	20,407	20,861	20,675	19,565	19,097	19,378	-2.2	0.9	6.9	7.7	20,407	19,097	6.9
532	Rental and leasing services .....	35,785	38,011	38,728	37,523	35,320	37,986	-5.9	-1.9	1.3	0.1	35,785	35,320	1.3
5321	Automotive equipment rental and leasing .....	12,968	13,601	14,728	13,892	12,947	13,329	-4.7	-7.7	0.2	2.0	12,968	12,947	0.2
53211	Passenger car rental and leasing.....	8,681	9,075	9,911	9,304	8,724	8,994	-4.3	-8.4	-0.5	0.9	8,681	8,724	-0.5
53212	Truck, utility trailer, and RV (Recreational Vehicle) rental and leasing .....	4,287	4,526	4,817	4,588	4,223	4,335	-5.3	-6.0	1.5	4.4	4,287	4,223	1.5
5322	Consumer goods rental .....	5,516	5,421	5,365	5,409	5,455	5,701	1.8	1.0	1.1	-4.9	5,516	5,455	1.1
5323	General rental centers.....	S	S	S	S	S	S	S	S	S	S	S	S	S
5324	Commercial and industrial machinery and equipment rental and leasing .....	16,716	18,288	17,870	17,441	16,397	18,293	-8.6	2.3	1.9	Z	16,716	16,397	1.9
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	10,175	11,708	10,580	10,567	9,551	10,658	-13.1	10.7	6.5	9.9	10,175	9,551	6.5
<b>54</b>	<b>Professional, scientific, and technical services <sup>9</sup> .....</b>	<b>418,418</b>	<b>423,808</b>	<b>413,073</b>	<b>412,470</b>	<b>395,266</b>	<b>412,725</b>	<b>-1.3</b>	<b>2.6</b>	<b>5.9</b>	<b>2.7</b>	<b>418,418</b>	<b>395,266</b>	<b>5.9</b>
5411	Legal services <sup>9</sup> .....	64,608	77,333	72,540	68,931	59,812	75,415	-16.5	6.6	8.0	2.5	64,608	59,812	8.0
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	48,921	35,437	35,966	40,695	43,278	32,457	38.1	-1.5	13.0	9.2	48,921	43,278	13.0
5413	Architectural, engineering, and related services .....	66,415	67,168	67,052	68,185	67,331	71,620	-1.1	0.2	-1.4	-6.2	66,415	67,331	-1.4
5413 pt	Architectural and related services <sup>10</sup> .....	16,238	16,148	15,891	16,317	15,928	16,079	0.6	1.6	1.9	0.4	16,238	15,928	1.9
54133	Engineering services .....	50,177	51,020	51,161	51,868	51,403	55,541	-1.7	-0.3	-2.4	-8.1	50,177	51,403	-2.4
5414	Specialized design services.....	5,225	5,048	5,209	5,180	4,963	5,368	3.5	-3.1	5.3	-6.0	5,225	4,963	5.3
5415	Computer systems design and related services .....	91,670	90,887	89,684	88,462	88,331	89,436	0.9	1.3	3.8	1.6	91,670	88,331	3.8
5416	Management, scientific, and technical consulting services .....	64,275	67,493	65,158	64,926	59,814	61,564	-4.8	3.6	7.5	9.6	64,275	59,814	7.5
5417	Scientific research and development services .....	32,968	35,258	32,376	32,364	31,026	34,038	-6.5	8.9	6.3	3.6	32,968	31,026	6.3
5418	Advertising, public relations, and related services .....	24,269	25,226	24,155	23,344	22,870	24,519	-3.8	4.4	6.1	2.9	24,269	22,870	6.1
5419	Other professional, scientific, and technical services.....	20,067	19,958	20,933	20,383	17,841	18,308	0.5	-4.7	12.5	9.0	20,067	17,841	12.5
<b>56</b>	<b>Administrative and support and waste management and remediation services .....</b>	<b>203,823</b>	<b>207,431</b>	<b>207,067</b>	<b>203,544</b>	<b>194,758</b>	<b>199,816</b>	<b>-1.7</b>	<b>0.2</b>	<b>4.7</b>	<b>3.8</b>	<b>203,823</b>	<b>194,758</b>	<b>4.7</b>
561	Administrative and support services .....	184,189	186,877	185,941	182,647	175,792	178,307	-1.4	0.5	4.8	4.8	184,189	175,792	4.8
5613	Employment services .....	83,460	84,804	79,850	76,914	77,704	79,105	-1.6	6.2	7.4	7.2	83,460	77,704	7.4
5615	Travel arrangement and reservation services .....	9,749	9,357	10,126	10,361	9,416	9,717	4.2	-7.6	3.5	-3.7	9,749	9,416	3.5
561 pt	Other administrative and support services <sup>11</sup> .....	90,980	92,716	95,965	95,372	88,672	89,485	-1.9	-3.4	2.6	3.6	90,980	88,672	2.6
562	Waste management and remediation services .....	19,634	20,554	21,126	20,897	18,966	21,509	-4.5	-2.7	3.5	-4.4	19,634	18,966	3.5
<b>61</b>	<b>Educational services <sup>12</sup> .....</b>	<b>15,486</b>	<b>15,256</b>	<b>15,177</b>	<b>16,342</b>	<b>14,729</b>	<b>14,595</b>	<b>1.5</b>	<b>0.5</b>	<b>5.1</b>	<b>4.5</b>	<b>15,486</b>	<b>14,729</b>	<b>5.1</b>
6114	Business schools and computer and management training .....	2,957	2,922	2,967	2,858	2,760	2,781	1.2	-1.5	7.1	5.1	2,957	2,760	7.1
6115	Technical and trade schools .....	3,491	3,503	3,386	3,473	3,376	3,444	-0.3	3.5	3.4	1.7	3,491	3,376	3.4
6116	Other schools and instruction.....	5,769	5,497	5,363	6,086	5,445	5,188	4.9	2.5	6.0	6.0	5,769	5,445	6.0
6117	Educational support services .....	3,269	3,334	3,461	3,925	3,148	3,182	-1.9	-3.7	3.8	4.8	3,269	3,148	3.8
<b>62</b>	<b>Health care and social assistance .....</b>	<b>597,313</b>	<b>592,892</b>	<b>577,513</b>	<b>579,282</b>	<b>567,590</b>	<b>571,407</b>	<b>0.7</b>	<b>2.7</b>	<b>5.2</b>	<b>3.8</b>	<b>597,313</b>	<b>567,590</b>	<b>5.2</b>
621	Ambulatory health care services .....	235,936	236,894	232,808	227,650	219,731	225,439	-0.4	1.8	7.4	5.1	235,936	219,731	7.4
6211	Offices of physicians.....	114,324	117,095	114,318	110,627	106,467	112,091	-2.4	2.4	7.4	4.5	114,324	106,467	7.4
6212	Offices of dentists.....	S	S	S	S	S	26,888	S	S	S	S	S	S	S
6213	Offices of other health practitioners .....	19,736	19,770	19,521	19,064	18,537	18,543	-0.2	1.3	6.5	6.6	19,736	18,537	6.5
6214	Outpatient care centers .....	31,176	30,913	29,748	29,511	28,098	28,977	0.9	3.9	11.0	6.7	31,176	28,098	11.0
6215	Medical and diagnostic laboratories .....	12,654	12,738	12,570	12,799	12,229	12,523	-0.7	1.3	3.5	1.7	12,654	12,229	3.5
6216	Home health care services .....	19,234	19,883	19,291	18,728	17,995	18,189	-3.3	3.1	6.9	9.3	19,234	17,995	6.9
6219	Other ambulatory health care services .....	8,534	8,652	8,610	8,411	8,195	8,228	-1.4	0.5	4.1	5.2	8,534	8,195	4.1
622	Hospitals .....	263,490	255,789	249,636	255,076	252,840	247,336	3.0	2.5	4.2	3.4	263,490	252,840	4.2
6221	General medical and surgical hospitals.....	245,186	237,616	232,233	237,395	235,419	230,135	3.2	2.3	4.1	3.3	245,186	235,419	4.1

**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**

 [Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
6222	Psychiatric and substance abuse hospitals.....	6,175	5,994	5,538	5,931	5,985	5,897	3.0	8.2	3.2	1.6	6,175	5,985	3.2
6223	Specialty (except psychiatric and substance abuse) hospitals.....	12,129	12,179	11,865	11,750	11,436	11,304	-0.4	2.6	6.1	7.7	12,129	11,436	6.1
623	Nursing and residential care facilities .....	56,883	57,564	56,374	55,914	54,942	56,111	-1.2	2.1	3.5	2.6	56,883	54,942	3.5
624	Social assistance .....	41,004	42,645	38,695	40,642	40,077	42,521	-3.8	10.2	2.3	0.3	41,004	40,077	2.3
6241	Individual and family services.....	20,623	21,114	19,812	20,623	20,332	21,668	-2.3	6.6	1.4	-2.6	20,623	20,332	1.4
6242	Community food and housing, and emergency and other relief services .....	7,730	9,150	7,281	7,703	7,478	8,838	-15.5	25.7	3.4	3.5	7,730	7,478	3.4
6243	Vocational rehabilitation services .....	3,202	3,150	3,110	3,303	3,235	3,252	1.7	1.3	-1.0	-3.1	3,202	3,235	-1.0
6244	Child day care services .....	9,449	9,231	8,492	9,013	9,032	8,763	2.4	8.7	4.6	5.3	9,449	9,032	4.6
<b>71</b>	<b>Arts, entertainment, and recreation.....</b>	<b>55,950</b>	<b>61,905</b>	<b>62,358</b>	<b>59,751</b>	<b>53,315</b>	<b>57,621</b>	<b>-9.6</b>	<b>-0.7</b>	<b>4.9</b>	<b>7.4</b>	<b>55,950</b>	<b>53,315</b>	<b>4.9</b>
711	Performing arts, spectator sports, and related industries .....	23,710	30,177	27,997	25,596	22,259	26,720	-21.4	7.8	6.5	12.9	23,710	22,259	6.5
7111	Performing arts companies.....	3,305	4,191	3,995	3,911	3,490	3,888	-21.1	4.9	-5.3	7.8	3,305	3,490	-5.3
7112	Spectator sports.....	8,242	12,295	10,976	9,305	7,624	10,592	-33.0	12.0	8.1	16.1	8,242	7,624	8.1
7113	Promoters of performing arts, sports, and similar events.....	5,157	6,077	6,668	5,968	5,187	5,749	-15.1	-8.9	-0.6	5.7	5,157	5,187	-0.6
7114	Agents and managers for artists, athletes, entertainers, and other public figures .....	1,808	2,246	1,958	1,814	1,633	2,030	-19.5	14.7	10.7	10.6	1,808	1,633	10.7
7115	Independent artists, writers, and performers.....	5,198	5,368	4,400	4,598	4,325	4,461	-3.2	22.0	20.2	20.3	5,198	4,325	20.2
712	Museums, historical sites, and similar institutions.....	3,397	4,397	4,098	4,481	3,269	4,404	-22.7	7.3	3.9	-0.2	3,397	3,269	3.9
713	Amusement, gambling, and recreation industries.....	28,843	27,331	30,263	29,674	27,787	26,497	5.5	-9.7	3.8	3.1	28,843	27,787	3.8
7131	Amusement parks and arcades.....	3,519	3,976	5,949	4,646	3,338	3,639	-11.5	-33.2	5.4	9.3	3,519	3,338	5.4
7132	Gambling industries.....	7,795	7,190	7,032	7,254	7,313	6,731	8.4	2.2	6.6	6.8	7,795	7,313	6.6
7139	Other amusement and recreation industries.....	17,529	16,165	17,282	17,774	17,136	16,127	8.4	-6.5	2.3	0.2	17,529	17,136	2.3
<b>721</b>	<b>Accommodation .....</b>	<b>53,686</b>	<b>54,505</b>	<b>60,563</b>	<b>58,405</b>	<b>53,148</b>	<b>53,118</b>	<b>-1.5</b>	<b>-10.0</b>	<b>1.0</b>	<b>2.6</b>	<b>53,686</b>	<b>53,148</b>	<b>1.0</b>
7211	Traveler accommodation .....	52,307	53,353	58,386	56,537	51,765	51,920	-2.0	-8.6	1.0	2.8	52,307	51,765	1.0
7212	RV (recreational vehicle) parks and recreational camps .....	1,022	797	1,747	1,554	997	823	28.2	-54.4	2.5	-3.2	1,022	997	2.5
7213	Rooming and boarding houses .....	357	355	430	314	386	375	0.6	-17.4	-7.5	-5.3	357	386	-7.5
<b>81</b>	<b>Other services (except public administration) <sup>13</sup> .....</b>	<b>120,436</b>	<b>130,325</b>	<b>117,139</b>	<b>121,789</b>	<b>117,000</b>	<b>133,233</b>	<b>-7.6</b>	<b>11.3</b>	<b>2.9</b>	<b>-2.2</b>	<b>120,436</b>	<b>117,000</b>	<b>2.9</b>
811	Repair and maintenance .....	40,664	40,514	41,700	42,780	39,495	39,227	0.4	-2.8	3.0	3.3	40,664	39,495	3.0
8111	Automotive repair and maintenance .....	27,200	26,288	27,024	27,542	25,930	24,563	3.5	-2.7	4.9	7.0	27,200	25,930	4.9
8112	Electronic and precision equipment repair and maintenance .....	3,758	4,042	4,073	4,090	4,036	3,979	-7.0	-0.8	-6.9	1.6	3,758	4,036	-6.9
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	7,995	8,310	8,511	8,847	7,848	8,927	-3.8	-2.4	1.9	-6.9	7,995	7,848	1.9
8114	Personal and household goods repair and maintenance .....	1,711	1,874	2,092	2,301	1,681	1,758	-8.7	-10.4	1.8	6.6	1,711	1,681	1.8
812	Personal and laundry services.....	26,760	26,610	25,561	25,780	24,268	25,204	0.6	4.1	10.3	5.6	26,760	24,268	10.3
8121	Personal care services.....	9,435	8,913	8,936	9,078	8,343	8,551	5.9	-0.3	13.1	4.2	9,435	8,343	13.1
8122	Death care services.....	4,642	4,502	4,227	4,518	4,440	4,376	3.1	6.5	4.5	2.9	4,642	4,440	4.5
8123	Drycleaning and laundry services.....	6,816	6,770	6,640	6,604	6,309	6,445	0.7	2.0	8.0	5.0	6,816	6,309	8.0
8129	Other personal services.....	5,867	6,425	5,758	5,580	5,176	5,832	-8.7	11.6	13.4	10.2	5,867	5,176	13.4



**Table 1b. Selected Services - Estimated Quarterly Revenue for Employer Firms, Not Seasonally Adjusted**[Estimates are not adjusted for seasonal variation or for price changes and are based on data from the Quarterly Services Survey. For additional information see [www.census.gov/services](http://www.census.gov/services)]

2007 NAICS code <sup>1</sup>	Kind of business	Total revenue (millions of dollars)						Percent change				Year to date		
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
813	Religious, grantmaking, civic, professional, and similar organizations <sup>14</sup>	53,012	63,201	49,878	53,229	53,237	68,802	-16.1	26.7	-0.4	-8.1	53,012	53,237	-0.4

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.

S Estimate does not meet publication standards because of high sampling variability (coefficient of variation is greater than 30%) or poor response quality (total quantity response rate is less than 50%). Unpublished estimates derived from this table by subtraction are subject to these same limitations and should not be attributed to the U.S. Census Bureau. For a description of publication standards and the total quantity response rate, see [www.census.gov/quality/guidelines/index.html](http://www.census.gov/quality/guidelines/index.html).

(1) For a full description of the NAICS (North American Industry Classification System) codes used in this table, see the 2007 NAICS manual or [www.census.gov/eos/www/naics/](http://www.census.gov/eos/www/naics/).

(2) Includes NAICS 22 (Utilities), NAICS 48-49 (Transportation and Warehousing), NAICS 51 (Information), NAICS 52 (Finance and Insurance), NAICS 53 (Real Estate and Rental and Leasing), NAICS 54 (Selected Professional, Scientific, and Technical Services), NAICS 56 (Administrative and Support and Waste Management and Remediation Services), NAICS 61 (Educational Services), NAICS 62 (Health Care and Social Assistance), NAICS 71 (Arts, Entertainment, and Recreation), NAICS 721 (Accommodation), and NAICS 81 (Other Services (except Public Administration)). Exclusions listed in footnotes 3, 4, 7, 9, 12, and 13 also apply to the Selected Services Total.

(3) Excludes government owned utilities.

(4) Excludes NAICS 482 (rail transportation) and 491 (postal service).

(5) Includes NAICS 51113 (book publishers), 51114 (directory and mailing list publishers), and 51119 (other publishers).

(6) Includes NAICS 5174 (satellite telecommunications), and 5179 (other telecommunications).

(7) Excludes NAICS 525 (funds, trusts, and other financial vehicles).

(8) Excludes NAICS 521 (monetary authorities-central bank) and NAICS 525 (funds, trusts, and other financial vehicles).

(9) Excludes NAICS 54112 (offices of notaries).

(10) Includes all of NAICS 5413 (architectural, engineering, and related services) except 54133 (engineering services).

(11) Includes NAICS 5611 (office administrative services), 5612 (facilities support services), 5614 (business support services), 5616 (investigation and security services), 5617 (services to buildings and dwellings), and 5619 (other support services).

(12) Excludes NAICS 6111 (elementary and secondary schools), 6112 (junior colleges), and 6113 (colleges, universities, and professional schools).

(13) Excludes NAICS 8131 (religious organizations), 81393 (labor unions and similar labor organizations), 81394 (political organizations), and 814 (private households).

(14) Excludes NAICS 8131 (religious organizations), 81393 (labor unions and similar labor organizations), and 81394 (political organizations).

Note: Estimates cover taxable and tax-exempt firms unless otherwise specified. Additionally, estimates for some sectors and subsectors may include data for kinds of business not shown. Table 2 provides estimated measures of sampling variability. Data users who create their own estimates using data from this report should cite the U.S. Census Bureau as the source of the original data only. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html). For NAICS 52, estimates may include unrealized gains (losses).

**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
	<b>Selected Services Total .....</b>	<b>1.5</b>	<b>1.5</b>	<b>1.5</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>0.2</b>	<b>0.1</b>	<b>0.3</b>	<b>0.5</b>	<b>1.5</b>	<b>1.5</b>	<b>0.3</b>
<b>22</b>	<b>Utilities .....</b>	<b>3.7</b>	<b>3.9</b>	<b>4.2</b>	<b>4.3</b>	<b>3.4</b>	<b>3.5</b>	<b>0.5</b>	<b>1.0</b>	<b>1.3</b>	<b>1.1</b>	<b>3.7</b>	<b>3.4</b>	<b>1.3</b>
2211	Electric power generation, transmission and distribution ....	4.5	4.4	4.7	5.0	4.1	4.2	0.8	0.8	1.7	1.4	4.5	4.1	1.7
2212	Natural gas distribution .....	2.6	2.6	4.0	3.6	2.7	3.0	1.7	4.1	0.6	1.0	2.6	2.7	0.6
2213	Water, sewage and other systems .....	7.8	6.4	7.5	7.2	8.0	8.3	2.9	2.5	1.3	2.8	7.8	8.0	1.3
<b>48-49</b>	<b>Transportation and warehousing .....</b>	<b>2.6</b>	<b>2.5</b>	<b>2.9</b>	<b>2.7</b>	<b>2.9</b>	<b>3.1</b>	<b>0.4</b>	<b>0.5</b>	<b>0.8</b>	<b>0.7</b>	<b>2.6</b>	<b>2.9</b>	<b>0.8</b>
481	Air transportation .....	4.1	4.0	3.8	3.9	4.1	4.0	0.2	0.3	1.0	0.4	4.1	4.1	1.0
483	Water transportation .....	3.3	3.6	3.2	3.9	3.7	3.8	1.2	0.5	1.3	1.7	3.3	3.7	1.3
4831	Deep sea, coastal, and Great Lakes water transportation.....	4.3	4.6	4.0	5.1	4.8	5.4	1.5	0.7	1.6	2.4	4.3	4.8	1.6
4832	Inland water transportation.....	3.8	4.0	4.4	3.5	4.0	3.7	0.5	0.6	0.5	0.7	3.8	4.0	0.5
484	Truck transportation .....	8.2	7.8	8.6	8.8	9.0	9.2	1.0	1.5	2.2	1.7	8.2	9.0	2.2
4841	General freight trucking .....	11.8	11.2	12.1	12.7	13.3	13.5	1.4	1.7	3.4	2.8	11.8	13.3	3.4
48412	General freight trucking, long-distance .....	13.1	12.1	13.4	14.0	14.5	14.8	1.8	2.4	4.1	3.5	13.1	14.5	4.1
4842	Specialized freight trucking .....	3.6	4.0	3.4	3.3	3.5	3.1	0.6	2.6	2.2	1.9	3.6	3.5	2.2
485	Transit and ground passenger transportation .....	5.9	5.7	3.9	5.2	4.6	4.7	1.5	2.9	1.9	2.3	5.9	4.6	1.9
486	Pipeline transportation .....	6.2	6.4	6.7	6.7	6.5	8.7	0.3	0.7	0.8	1.8	6.2	6.5	0.8
487	Scenic and sightseeing transportation .....	8.3	8.0	7.6	6.9	6.8	6.0	3.1	3.2	6.9	5.2	8.3	6.8	6.9
488	Support activities for transportation .....	5.8	4.7	5.1	5.9	5.1	4.6	1.8	1.0	1.7	1.7	5.8	5.1	1.7
492	Couriers and messengers .....	1.7	1.9	1.5	1.7	2.4	3.2	0.4	1.3	2.9	3.5	1.7	2.4	2.9
493	Warehousing and storage .....	6.0	4.5	5.9	5.8	5.8	4.7	2.3	2.9	1.8	2.4	6.0	5.8	1.8
<b>51</b>	<b>Information .....</b>	<b>2.1</b>	<b>2.0</b>	<b>2.1</b>	<b>2.1</b>	<b>2.0</b>	<b>1.9</b>	<b>0.2</b>	<b>0.2</b>	<b>0.3</b>	<b>0.4</b>	<b>2.1</b>	<b>2.0</b>	<b>0.3</b>
511	Publishing industries (except Internet) .....	5.3	4.8	4.3	5.4	4.6	4.5	0.9	0.7	1.0	0.9	5.3	4.6	1.0
51111	Newspaper publishers .....	5.5	5.5	6.2	6.0	6.3	6.6	0.5	1.8	1.9	1.5	5.5	6.3	1.9
51112	Periodical publishers .....	4.6	5.0	4.0	4.5	4.4	4.1	1.8	3.4	3.2	3.0	4.6	4.4	3.2
5111 pt	Book, directory and mailing list, and other publishers .....	4.7	3.9	3.3	5.6	4.7	3.6	1.0	1.3	1.1	1.5	4.7	4.7	1.1
5112	Software publishers .....	7.0	6.3	5.6	7.0	6.2	5.9	1.3	1.2	1.4	1.2	7.0	6.2	1.4
512	Motion picture and sound recording industries .....	5.5	4.2	3.7	3.4	2.8	3.9	3.0	1.6	4.1	1.9	5.5	2.8	4.1
515	Broadcasting (except Internet) .....	1.9	2.2	1.6	1.8	1.7	1.9	0.5	1.3	0.5	0.5	1.9	1.7	0.5
5151	Radio and television broadcasting .....	3.2	3.7	2.7	3.1	2.9	3.3	0.7	2.8	1.1	1.1	3.2	2.9	1.1
5152	Cable and other subscription programming .....	1.3	1.2	1.3	1.2	1.1	1.1	0.5	0.4	0.2	0.9	1.3	1.1	0.2
517	Telecommunications .....	2.0	1.9	2.0	2.1	2.1	2.0	0.3	0.3	0.2	0.3	2.0	2.1	0.2
5171	Wired telecommunications carriers .....	3.8	3.5	3.7	3.8	3.9	3.8	0.4	0.4	0.3	0.6	3.8	3.9	0.3
5172	Wireless telecommunications carriers (except satellite) .....	2.8	2.7	2.9	2.8	2.6	2.6	0.1	0.3	0.4	0.4	2.8	2.6	0.4
517 pt	Other telecommunications .....	2.9	2.9	3.3	3.3	2.9	3.0	0.4	0.9	0.5	1.0	2.9	2.9	0.5
518	Data processing, hosting, and related services .....	7.1	7.0	7.1	7.2	6.9	6.0	0.6	0.8	1.3	1.5	7.1	6.9	1.3
519	Other information services.....	4.7	3.9	4.1	3.8	5.1	3.5	1.1	0.7	1.2	1.2	4.7	5.1	1.2
<b>52</b>	<b>Finance and insurance .....</b>	<b>4.8</b>	<b>4.8</b>	<b>4.6</b>	<b>4.2</b>	<b>4.3</b>	<b>4.2</b>	<b>0.8</b>	<b>0.3</b>	<b>0.7</b>	<b>1.5</b>	<b>4.8</b>	<b>4.3</b>	<b>0.7</b>
52 pt	Finance and insurance (except monetary authorities-central bank) .....	4.9	4.9	4.7	4.3	4.5	4.3	0.8	0.3	0.8	1.5	4.9	4.5	0.8
521	Monetary authorities-central bank.....	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
522	Credit intermediation and related activities.....	4.7	4.8	4.4	4.6	4.5	4.3	0.6	0.5	0.7	0.8	4.7	4.5	0.7
5221	Depository credit intermediation.....	9.0	9.3	8.4	8.7	8.5	8.2	0.7	1.0	1.5	1.7	9.0	8.5	1.5
5222	Nondepository credit intermediation.....	3.7	3.5	3.4	3.6	3.5	3.2	0.7	0.5	0.6	1.6	3.7	3.5	0.6
5223	Activities related to credit intermediation.....	2.3	2.2	2.4	2.3	2.3	2.1	0.3	0.8	1.3	0.9	2.3	2.3	1.3
523	Securities, commodity contracts, and other financial investments and related activities .....	3.5	4.1	3.4	4.0	4.2	4.0	1.7	1.5	2.1	2.6	3.5	4.2	2.1
5231	Securities and commodity contracts intermediation and brokerage .....	6.0	7.2	6.5	6.2	6.0	5.7	1.4	1.4	1.0	2.1	6.0	6.0	1.0
5232	Securities and commodity exchanges .....	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
5239	Other financial investment activities .....	2.9	4.9	3.7	5.1	5.2	6.1	2.7	2.3	3.1	4.4	2.9	5.2	3.1
524	Insurance carriers and related activities .....	7.0	6.7	6.7	6.1	6.2	6.3	1.4	0.5	0.9	2.8	7.0	6.2	0.9
5241	Insurance carriers .....	7.9	7.9	7.9	7.1	7.1	7.5	1.8	0.7	1.1	3.2	7.9	7.1	1.1
5242	Agencies, brokerages, and other insurance related activities .....	6.0	5.6	5.8	5.0	5.5	5.2	1.8	1.3	1.4	1.5	6.0	5.5	1.4



**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
<b>53</b>	<b>Real estate and rental and leasing .....</b>	<b>4.5</b>	<b>4.4</b>	<b>5.2</b>	<b>4.8</b>	<b>4.2</b>	<b>4.3</b>	<b>0.4</b>	<b>0.7</b>	<b>1.1</b>	<b>0.5</b>	<b>4.5</b>	<b>4.2</b>	<b>1.1</b>
531	Real estate .....	6.2	6.2	7.1	6.8	6.5	6.6	0.6	0.9	1.7	0.6	6.2	6.5	1.7
5311	Lessors of real estate.....	8.5	8.8	9.6	9.2	8.1	9.0	0.7	0.8	1.4	1.2	8.5	8.1	1.4
5312	Offices of real estate agents and brokers.....	8.6	7.8	7.3	8.6	8.4	9.6	1.3	1.3	2.7	2.0	8.6	8.4	2.7
5313	Activities related to real estate.....	6.4	5.8	8.3	7.5	8.1	6.2	2.0	2.8	2.9	2.1	6.4	8.1	2.9
532	Rental and leasing services .....	4.0	4.3	4.0	3.9	3.7	4.2	0.8	1.1	1.4	1.8	4.0	3.7	1.4
5321	Automotive equipment rental and leasing .....	2.9	2.7	2.5	2.6	2.6	2.7	0.9	0.4	0.4	0.8	2.9	2.6	0.4
53211	Passenger car rental and leasing.....	2.3	2.2	1.9	2.3	2.6	2.6	0.3	0.4	0.5	0.5	2.3	2.6	0.5
53212	Truck, utility trailer, and RV (Recreational Vehicle) rental and leasing .....	5.1	5.2	5.0	4.1	4.2	3.9	2.5	0.6	2.1	1.7	5.1	4.2	2.1
5322	Consumer goods rental .....	8.9	11.3	13.4	10.3	8.5	12.0	2.1	1.9	1.9	2.0	8.9	8.5	1.9
5323	General rental centers.....	S	S	S	S	S	S	S	S	S	S	S	S	S
5324	Commercial and industrial machinery and equipment rental and leasing .....	5.5	6.3	5.7	5.9	6.0	6.7	1.4	2.3	2.8	3.6	5.5	6.0	2.8
533	Lessors of nonfinancial intangible assets (except copyrighted works) .....	7.4	6.9	7.8	8.2	8.4	7.7	0.9	1.3	1.4	1.0	7.4	8.4	1.4
<b>54</b>	<b>Professional, scientific, and technical services .....</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>1.7</b>	<b>0.5</b>	<b>0.8</b>	<b>0.7</b>	<b>1.4</b>	<b>2.1</b>	<b>2.1</b>	<b>0.7</b>
5411	Legal services .....	2.5	3.4	3.7	3.2	2.6	3.2	1.0	1.2	1.7	1.8	2.5	2.6	1.7
5412	Accounting, tax preparation, bookkeeping, and payroll services .....	3.7	4.4	4.1	3.0	2.2	3.5	3.1	2.0	1.8	1.6	3.7	2.2	1.8
5413	Architectural, engineering, and related services .....	4.2	4.5	4.5	5.4	4.7	4.8	2.5	1.3	2.1	2.1	4.2	4.7	2.1
5413 pt	Architectural and related services .....	8.4	9.2	8.2	8.1	9.0	6.8	3.5	3.8	1.8	3.0	8.4	9.0	1.8
54133	Engineering services .....	5.1	5.1	5.6	6.0	5.3	6.2	2.6	1.1	2.4	2.5	5.1	5.3	2.4
5414	Specialized design services.....	5.6	6.1	6.4	5.1	4.5	4.7	2.9	2.5	4.2	4.7	5.6	4.5	4.2
5415	Computer systems design and related services .....	7.4	7.4	7.3	7.3	7.5	7.4	1.2	1.4	1.8	3.0	7.4	7.5	1.8
5416	Management, scientific, and technical consulting services .....	5.1	5.4	5.0	5.7	5.8	5.3	0.9	1.0	1.6	2.3	5.1	5.8	1.6
5417	Scientific research and development services .....	7.1	6.4	5.3	5.7	5.5	4.8	2.4	3.4	3.8	2.9	7.1	5.5	3.8
5418	Advertising, public relations, and related services .....	3.1	4.0	4.3	4.0	4.5	3.6	1.5	0.9	2.0	1.4	3.1	4.5	2.0
5419	Other professional, scientific, and technical services.....	10.1	11.0	11.6	9.9	10.8	9.8	1.7	3.1	6.4	4.3	10.1	10.8	6.4
<b>56</b>	<b>Administrative and support and waste management and remediation services .....</b>	<b>1.9</b>	<b>1.8</b>	<b>1.4</b>	<b>1.9</b>	<b>2.1</b>	<b>1.7</b>	<b>0.9</b>	<b>1.1</b>	<b>2.2</b>	<b>1.2</b>	<b>1.9</b>	<b>2.1</b>	<b>2.2</b>
561	Administrative and support services .....	2.0	2.0	2.1	2.5	2.8	2.2	1.0	1.3	2.6	1.5	2.0	2.8	2.6
5613	Employment services .....	4.3	4.6	3.5	3.8	2.1	2.8	1.6	1.9	3.2	3.0	4.3	2.1	3.2
5615	Travel arrangement and reservation services .....	8.2	6.5	6.5	7.4	8.1	7.8	3.8	3.8	6.0	4.1	8.2	8.1	6.0
561 pt	Other administrative and support services .....	3.8	3.7	3.8	4.5	4.5	3.7	1.2	1.0	2.3	0.9	3.8	4.5	2.3
562	Waste management and remediation services .....	8.1	9.2	8.8	8.5	9.3	9.7	1.5	0.6	1.9	1.6	8.1	9.3	1.9
<b>61</b>	<b>Educational services .....</b>	<b>5.0</b>	<b>3.8</b>	<b>4.9</b>	<b>3.8</b>	<b>4.8</b>	<b>4.0</b>	<b>1.5</b>	<b>2.7</b>	<b>2.0</b>	<b>1.4</b>	<b>5.0</b>	<b>4.8</b>	<b>2.0</b>
6114	Business schools and computer and management training ..	11.7	11.6	10.4	9.5	9.7	9.5	3.5	3.3	3.6	4.7	11.7	9.7	3.6
6115	Technical and trade schools .....	12.6	11.7	13.7	13.1	12.5	12.6	3.2	2.9	2.8	1.7	12.6	12.5	2.8
6116	Other schools and instruction.....	7.1	7.5	9.0	6.4	8.3	6.2	3.9	3.9	4.7	6.2	7.1	8.3	4.7
6117	Educational support services .....	3.8	3.4	7.6	3.5	3.6	5.4	3.2	4.9	3.3	4.8	3.8	3.6	3.3
<b>62</b>	<b>Health care and social assistance .....</b>	<b>1.9</b>	<b>1.6</b>	<b>1.5</b>	<b>1.4</b>	<b>1.8</b>	<b>1.4</b>	<b>0.8</b>	<b>0.4</b>	<b>0.7</b>	<b>0.5</b>	<b>1.9</b>	<b>1.8</b>	<b>0.7</b>
621	Ambulatory health care services .....	1.9	1.7	1.9	1.7	1.8	1.8	0.5	0.4	0.9	0.4	1.9	1.8	0.9
6211	Offices of physicians.....	5.4	4.8	4.9	4.9	4.9	4.7	1.1	0.9	1.8	1.3	5.4	4.9	1.8
6212	Offices of dentists.....	S	S	S	S	S	4.7	S	S	S	S	S	S	S
6213	Offices of other health practitioners .....	4.3	4.3	4.5	4.9	4.5	4.1	0.6	0.8	1.4	1.8	4.3	4.5	1.4
6214	Outpatient care centers .....	3.6	2.9	3.3	3.2	2.9	2.8	1.1	1.0	2.0	1.6	3.6	2.9	2.0
6215	Medical and diagnostic laboratories .....	3.7	4.1	3.8	4.5	4.3	4.0	0.8	0.9	1.5	1.3	3.7	4.3	1.5
6216	Home health care services .....	4.4	4.3	4.6	4.8	4.7	4.3	1.0	1.4	3.1	2.4	4.4	4.7	3.1
6219	Other ambulatory health care services .....	6.0	5.7	5.8	5.7	5.5	5.5	1.1	1.0	1.6	1.4	6.0	5.5	1.6
622	Hospitals .....	3.5	3.3	2.9	3.1	3.4	2.9	1.4	0.8	1.3	1.1	3.5	3.4	1.3
6221	General medical and surgical hospitals.....	3.8	3.5	3.2	3.4	3.7	3.2	1.5	0.9	1.4	1.1	3.8	3.7	1.4

**Table 2. Selected Services - Estimated Measures of Sampling Variability**

[Estimates are shown as percents and are based on data from the Quarterly Services Survey]

2007 NAICS code	Kind of business	Coefficient of variation for total revenue						Standard error for percent change				Year to Date		
												Coefficient of variation		Standard error
		1Q 2016 (p)	4Q 2015 (r)	3Q 2015	2Q 2015	1Q 2015	4Q 2014	1Q 2016 from 4Q 2015 (p)	4Q 2015 from 3Q 2015 (r)	1Q 2016 from 1Q 2015 (p)	4Q 2015 from 4Q 2014 (r)	2016 (p)	2015 (r)	2016 from 2015 (p)
6222	Psychiatric and substance abuse hospitals.....	9.0	8.9	9.5	8.7	8.7	8.2	2.0	1.7	1.3	1.7	9.0	8.7	1.3
6223	Specialty (except psychiatric and substance abuse) hospitals.....	7.6	7.4	7.2	7.2	7.2	6.9	0.5	0.8	1.6	1.5	7.6	7.2	1.6
623	Nursing and residential care facilities .....	4.6	4.8	5.1	4.8	4.6	4.2	0.9	0.9	1.0	0.9	4.6	4.6	1.0
624	Social assistance .....	2.6	2.4	2.5	2.0	3.3	3.1	1.1	0.7	1.6	1.8	2.6	3.3	1.6
6241	Individual and family services.....	2.5	2.5	2.4	1.9	3.0	3.3	1.6	1.6	2.0	2.9	2.5	3.0	2.0
6242	Community food and housing, and emergency and other relief services .....	5.0	4.0	4.5	4.4	4.7	3.9	2.4	4.2	2.6	1.9	5.0	4.7	2.6
6243	Vocational rehabilitation services .....	10.1	9.8	8.7	8.6	10.7	9.5	1.3	2.9	2.8	1.9	10.1	10.7	2.8
6244	Child day care services .....	6.3	6.2	7.7	6.5	7.7	6.8	2.4	3.2	3.0	2.8	6.3	7.7	3.0
<b>71</b>	<b>Arts, entertainment, and recreation.....</b>	<b>2.8</b>	<b>3.1</b>	<b>2.3</b>	<b>2.6</b>	<b>2.5</b>	<b>2.6</b>	<b>1.2</b>	<b>2.4</b>	<b>1.5</b>	<b>2.4</b>	<b>2.8</b>	<b>2.5</b>	<b>1.5</b>
711	Performing arts, spectator sports, and related industries .....	4.6	6.2	2.9	4.9	3.8	4.5	2.0	4.0	2.2	4.1	4.6	3.8	2.2
7111	Performing arts companies.....	6.2	8.3	9.5	8.6	7.7	7.3	3.6	4.5	4.0	3.8	6.2	7.7	4.0
7112	Spectator sports.....	11.5	8.6	6.4	10.9	10.5	7.9	5.0	7.3	3.6	3.2	11.5	10.5	3.6
7113	Promoters of performing arts, sports, and similar events.....	7.0	3.8	2.2	5.3	8.4	4.8	5.7	4.6	3.5	4.5	7.0	8.4	3.5
7114	Agents and managers for artists, athletes, entertainers, and other public figures .....	11.9	13.5	12.2	12.2	12.3	15.6	3.7	3.9	6.8	9.2	11.9	12.3	6.8
7115	Independent artists, writers, and performers.....	12.6	16.6	10.9	11.5	9.7	6.9	5.2	7.3	12.8	18.2	12.6	9.7	12.8
712	Museums, historical sites, and similar institutions.....	5.0	3.1	5.7	4.1	4.7	4.1	3.4	5.7	1.6	3.8	5.0	4.7	1.6
713	Amusement, gambling, and recreation industries.....	5.0	4.5	4.1	4.3	4.9	4.7	0.7	1.1	1.9	1.6	5.0	4.9	1.9
7131	Amusement parks and arcades.....	4.8	3.8	4.8	4.0	4.4	2.8	1.3	2.6	4.5	3.1	4.8	4.4	4.5
7132	Gambling industries.....	11.5	11.3	11.3	11.4	11.3	11.3	1.3	0.6	1.7	0.9	11.5	11.3	1.7
7139	Other amusement and recreation industries.....	6.4	6.3	6.4	6.3	7.2	7.5	1.2	1.5	3.7	2.8	6.4	7.2	3.7
<b>721</b>	<b>Accommodation .....</b>	<b>2.7</b>	<b>3.2</b>	<b>3.3</b>	<b>3.0</b>	<b>2.7</b>	<b>2.8</b>	<b>0.9</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>	<b>2.7</b>	<b>2.7</b>	<b>0.8</b>
7211	Traveler accommodation .....	2.8	3.2	3.2	3.0	2.7	2.9	0.9	0.8	0.9	0.8	2.8	2.7	0.9
7212	RV (recreational vehicle) parks and recreational camps .....	2.5	4.1	6.3	5.4	2.4	4.5	4.3	2.1	2.5	1.4	2.5	2.4	2.5
7213	Rooming and boarding houses .....	16.8	23.1	25.0	20.8	17.9	20.6	7.0	4.5	2.9	3.6	16.8	17.9	2.9
<b>81</b>	<b>Other services (except public administration) .....</b>	<b>2.7</b>	<b>2.5</b>	<b>2.4</b>	<b>1.8</b>	<b>2.2</b>	<b>2.0</b>	<b>1.6</b>	<b>2.0</b>	<b>1.1</b>	<b>1.6</b>	<b>2.7</b>	<b>2.2</b>	<b>1.1</b>
811	Repair and maintenance .....	3.9	4.1	3.6	4.0	4.9	4.1	1.3	1.7	2.1	2.0	3.9	4.9	2.1
8111	Automotive repair and maintenance .....	5.1	6.3	4.8	4.9	5.9	5.4	2.5	2.2	3.1	3.6	5.1	5.9	3.1
8112	Electronic and precision equipment repair and maintenance .....	14.3	14.4	15.1	14.6	12.2	10.8	0.9	1.8	3.3	6.4	14.3	12.2	3.3
8113	Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance .....	10.0	10.2	8.5	8.8	8.3	8.8	5.0	3.4	3.3	3.2	10.0	8.3	3.3
8114	Personal and household goods repair and maintenance .....	13.7	12.6	13.9	14.7	12.7	11.6	5.3	2.6	6.0	7.6	13.7	12.7	6.0
812	Personal and laundry services.....	4.5	3.6	4.1	3.9	3.6	3.2	1.4	1.5	1.6	1.4	4.5	3.6	1.6
8121	Personal care services.....	9.1	8.1	8.1	7.2	7.6	6.5	2.5	1.3	3.3	2.4	9.1	7.6	3.3
8122	Death care services.....	8.9	9.7	8.9	8.6	7.5	8.7	2.7	2.8	4.1	2.7	8.9	7.5	4.1
8123	Drycleaning and laundry services.....	9.3	8.8	8.6	8.5	8.0	8.1	4.6	1.1	5.2	3.0	9.3	8.0	5.2
8129	Other personal services.....	6.8	7.7	7.6	6.6	6.6	6.2	1.9	5.1	3.7	3.7	6.8	6.6	3.7
813	Religious, grantmaking, civic, professional, and similar organizations .....	3.0	3.0	3.7	3.1	3.0	3.7	2.6	4.8	2.1	2.9	3.0	3.0	2.1

(p) Preliminary estimate. (r) Revised estimate. Z Absolute value is less than .05.

S Corresponding estimate in Table 1a and/or 1b does not meet publication standards because of high sampling variability or poor response quality.

Note: Estimated measures of sampling variability are based on data not adjusted for seasonal variation, and should be used when drawing inferences about both adjusted and not adjusted estimates. Additional information on confidentiality protection, sampling error, nonsampling error, sample design, and definitions may be found at [www.census.gov/services/qss/cv.html](http://www.census.gov/services/qss/cv.html).

## Survey Description

The U.S. Census Bureau conducts the Quarterly Services Survey (QSS) to provide national estimates of quarterly revenue for employer firms located in the United States and classified in select service industries. The current total sample size is approximately 19,500 employer firms.

Each quarter, questionnaires are mailed to a probability sample of employer firms selected from the larger Service Annual Survey (SAS) sample. The QSS sample includes firms of all sizes and is updated on a quarterly basis to account for new services businesses, deaths, and other changes to the survey universe. Data for nonresponding firms are imputed based on data for similar-sized firms classified in the same kind of business. The following table lists imputation rates of total quarterly revenue for the industries published in the QSS:

2007 NAICS Code	Kind of Business	Imputation Rate of Total Quarterly Revenue (in %)
	Selected Services Total	25
22	Utilities	6
48-49	Transportation and warehousing	27
51	Information	16
52	Finance and insurance	15
53	Real estate and rental and leasing	32
54	Professional, scientific, and technical services	37
56	Administrative and support and waste management and remediation services	37
61	Educational services	38
62	Health care and social assistance	32
71	Arts, entertainment, and recreation	33
721	Accommodation	30
81	Other services (except public administration)	37

Quarterly revenue estimates are obtained by summing weighted data (either reported or imputed), where the weight for a particular unit is the reciprocal of its probability of being selected into the sample. The estimates are benchmarked using results of the latest SAS. Additional information on the QSS can be found on the Census Bureau website at <http://www.census.gov/services/index.html>.

## Description of Seasonal Adjustment

To derive the seasonally adjusted revenue estimates published in this report, we used all available quarterly revenue estimates as input to the Census Bureau's X-13 ARIMA-SEATS program. With each quarterly release, we publish preliminary seasonally adjusted estimates for the current quarter and revised seasonally adjusted estimates for the previous five quarters. The seasonal adjustment models used to derive seasonal factors for each kind of business are evaluated annually and will not be revised until the next benchmarking operation. For a table of the seasonal adjustment factors, see <http://www.census.gov/services/qss/qssseasfactors.xls>. A list of "Frequently Asked Questions" on seasonal adjustment of QSS estimates is available at <http://www.census.gov/services/qss/qssseasfaq.html>.

## Reliability of the Estimates

The estimates in this report may differ from the actual, but unknown, population values. For a particular estimate, statisticians define this difference as the total error of the estimate. When describing the accuracy of survey results, it is convenient to discuss total error as the sum of sampling error and nonsampling error. Nonsampling error is the difference between the actual population parameter and the value that would be derived by surveying the entire set of units identified as the survey universe (the sampling frame). There are many potential contributors to nonsampling error – the inclusion of erroneous units in the survey (overcoverage), the exclusion of eligible units from the survey (undercoverage), nonresponse, misreporting, mistakes in recording and coding responses, misinterpretation of questions, and other errors of collection, response, coverage, or processing. Though nonsampling error is not measured directly, the Census Bureau employs quality control procedures throughout the process to minimize this type of error. Sampling error is the average difference between the estimate and the result that would be obtained from a complete enumeration of the sampling frame conducted under the same survey conditions. This error occurs because only a subset of the entire sampling frame is measured in a sample survey. Common measures of sampling error are the sampling variance, the standard error, and the coefficient of variation (CV). The sampling variance is defined as the squared difference, averaged over all possible samples of the same size and design, between the estimator and its average value. The standard error is the square root of the sampling variance. The CV expresses the standard error as a percentage of the estimate to which it refers. For example, an estimate of 200 units that has an estimated standard error of 10 units has an estimated CV of 5 percent. The sampling variance, standard error, and CV of an estimate can be estimated from the selected sample because the sample was selected using probability sampling. Standard errors and coefficients of variation are given in Table 2 of this report.

The first page of this release gives statements about the change in revenue from a prior period. Each change estimate is accompanied by a number in parentheses, called the "margin of error." The margin of error can be used to construct a 90-percent confidence interval, which is interpreted as follows. If, for each possible sample, an estimate and its approximate standard error are obtained, then for approximately 90 percent of the possible samples, the interval from 1.895 standard errors below to 1.895 standard errors above the estimate would include the average of the estimates derived from all possible samples. If, for example, a particular change estimate is +1.2 percent and its associated margin of error is  $\pm 1.5$  percentage points, then the 90-percent confidence interval for the change estimate is -0.3 percent to +2.7 percent. If the interval contains 0, then one does not have sufficient evidence to conclude at the 90-percent confidence level that the actual change is different from zero. Each comparison stated in this report has undergone statistical testing and is significant at the 90-percent confidence level, unless otherwise noted. Data users should take into account the estimates of sampling error and the potential effects of nonsampling error when using the statistics in this publication.